



ANNUAL REPORT
OF THE
CONSUMPTIVES' HOSPITAL DEPARTMENT
FOR THE YEAR ENDING JANUARY 31, 1919.

Boston, February 1, 1919.

HON. ANDREW J. PETERS,
Mayor of the City of Boston:

DEAR SIR,— The report of the Consumptives' Hospital Department for the year ending January 31, 1919, is respectfully submitted herewith.

The Board of Trustees met on May 13, 1918, and organized for the year. John F. O'Brien was elected chairman and James J. Minot secretary.

The appropriation for the year 1918-19 was \$303,254.73. The expenses for the year were \$281,353.88, leaving a balance of \$21,900.85, which was turned back to the city treasury.

The receipts for the year were \$87,098.69, which are not credited to the hospital but paid into the city treasury. This makes the net cost of the hospital to the city \$194,255.19.

Below is given a table showing the cost, the receipts and the net cost, together with the figures for the principal activities of the hospital.

	1912.	1913.	1914.	1915.	1916.	1917.	1918.
Cost.....	\$200,128 65	\$200,804 48	\$212,950 03	\$212,340 96	\$222,717 69	\$260,737 70	\$281,353 88
Paid into city treasury from subsidy, etc.....	42,010 22	54,268 06	62,264 42	60,249 31	77,874 79	81,601 38	87,098 69
Net cost to city.	\$158,118 43	\$146,536 42	\$150,685 61	\$152,091 65	\$144,842 90	\$179,136 32	\$194,255 19
Number of patient days at hospital. . .	68,421	74,120	88,189	95,555	126,164	140,031	131,296
Number of patient visits to out-patient department,	8,750	9,975	9,868	11,386	10,070	9,829	9,642
Number of nurse visits to homes. . .	51,873	54,778	51,320	53,605	56,079	57,674	53,448

In 1918 there were constantly many positions vacant among the permanent employees because suitable persons for these positions could not be found. The cost of permanent employees, however, was \$6,593.03 more in 1918 than in 1917. In 1918 there were 9,038 less "patient and officer days" to provide food for than in 1917, but food cost \$6,099.46 more in 1918 than in 1917. Fuel cost \$12,470.45 more in 1918 than in 1917. These three increased costs (salaries, food and fuel) together amount to \$25,162.94, which is \$4,546.76 more than the total increased cost of 1918 over that of 1917.

Appended to this report is the complete financial statement for the year.

The following table shows the per capita per diem cost, December 1 to December 1, at the hospital:

	1911.	1912.	1913.	1914.	1915.	1916.	1917.	1918.
Total number of patient days.	59,235	68,421	74,120	88,189	95,555	129,164	140,031	131,296
Cost per patient day.	\$1 44	\$1 49	\$1 53	\$1 53	\$1 34	\$1 24	\$1 39	\$1 68
Number of patient and officer days,	99,632	107,731	112,868	123,544	131,644	169,388	186,242	177,204
Per capita per diem cost of raw food,	\$0 33	\$0 31	\$0 35	\$0 34	\$0 33	\$0 35	\$0 38	\$0 44

The length of stay of the patients in the hospital for successive years is shown in the table below. Patients who had entered the hospital less than three weeks before the day this census was taken were not counted.

LENGTH OF TIME IN HOSPITAL.	7 to 8 Years.	6 to 7 Years.	5 to 6 Years.	4 to 5 Years.	3 to 4 Years.	2 to 3 Years.	1 to 2 Years.	6 Months to 1 Year.	Less than 6 Months.
January, 1915.....			2	1	8	15	51	54	
January, 1916.....			2	7	10	28	49	38	121
January, 1917.....		1	5	7	13	28	42	72	194
January, 1918.....	1	4	2	4	18	11	42	87	160
January, 1919.....	1		4	12	6	26	63	57	160

The following table shows the admissions and discharges for several years at Mattapan:

	1911.	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.
In hospital February 1....	183	185	198	213	262	291	403	386	369
Admitted.....	587	614	515	580	517	1,020	931	744	
Discharged alive.....	345	336	270	291	259	528	544	403	
Discharged dead.....	240	263	230	240	230	380	404	358	

The increased number of admissions to the hospital in 1916 was due to the fact that new wards had been completed, adding 140 beds. There were less admissions in 1918 than in 1917. The same is true for all other tuberculosis hospitals. The reason for this is everywhere believed to be that owing to high wages every one who could work did so. There is no reason to think that the incidence of tuberculosis is less. The death rate has steadily increased not only here but all over the world in the last few years. The reason for this is not known. The increase antedates the war and has occurred as well in countries at peace. The number of admissions was further diminished because of the influenza epidemic; during the worst period of the epidemic new cases were not received.

The trustees are authorized to hire 100 beds in private hospitals at not over \$8 per bed per week. (Acts of 1906, chapter 189, and amended Special Acts of 1915, chapter 190.) The right to hire beds in private hospitals expired July 1, 1918.

The following table shows the admissions and discharges in these hospitals for several years:

	1911.	1912.	1913.	1914.	1915.	1916.	1917.	1918.
In hospitals February 1.....	82	79	80	89	70	70	29	26
Admitted.....	136	114	140	63	115	4	7	
Discharged alive.....	93	80	92	43	58	28	3	24
Discharged dead.....	46	33	39	39	57	17	7	2

The greatest hope for success in the battle against tuberculosis is by making the resistance so strong that it will win in the fight. This means proper and sufficient care of the child and especially the child of a tuberculous family. It is now believed by the best authorities that practically all infection with tuberculosis takes place during childhood; that between birth and the end of the second year about 10 per cent of all children have become infected; by the sixth year about 50 per cent and by the fifteenth year about 70 per cent are infected. In those children who can build up a sufficiently strong resistance the infection remains quiescent and active tuberculosis (what is ordinarily known as tuberculosis or consumption) never develops, but when the resistance is inadequate, sooner or later active tuberculosis develops. While the child is still surrounded by the opportunity for constant infection, and living in poverty, the chance of sufficiently strengthening the resistance is exceedingly poor. Much has been done elsewhere by removing these children for some time to country homes, sanatoria and preventoria. Boston has no such opportunity for her children. The trustees again call attention to the great need for and economic value of such a home and trust that it will be provided.

The trustees would again call attention to the pressing need for a nurses' home. The nurses are housed in the building intended for employees other than nurses. There is no longer room for them there.

This building is filled and overflowing, and a house outside the hospital ground has to be hired. The nurses should be by themselves and separated from the group of ward buildings so that when off duty the nurse may be free from the sense of being surrounded by the dying consumptive, as they are all day and every day.

The new cottage ward of fourteen beds for women has been finished, as has the changing of the day camp to a night camp.

Paying patients are received at the hospital and given separate rooms when possible.

This year more has been done to occupy and amuse the patients, who have to spend often months and years at the hospital, and with good results.

This hospital, like all others, has been much handicapped this year by the great difficulty of securing proper and sufficient employees, and in some positions the pay had to be increased in order to secure anyone to fill them. Some positions could not be filled at all. With the war ending it is expected that these positions can be filled again.

The out-patient department at 13 Dillaway street is the center of a most important part of the work of the hospital. The present building, an altered dwelling house, has long been entirely too small. Much that should be done has to be omitted and much that is done is imperfectly done because the present building is so inadequate. For a number of years the trustees have asked for a new building. They sincerely hope that they will not be obliged to wait longer.

Below is given the per capita cost and number of visits made at the out-patient department:

	1910.	1911.	1912.	1913.	1914.	1915.	1916.	1917.	1918.
Number of patient visits to out-patient department December 1 to December 1.....	7,377	8,504	8,750	9,975	9,868	12,381	10,070	10,613	9,642
Cost of each patient visit to out-patient department.....	\$0 96	\$0 85	\$0 85	\$0 76	\$0 77	\$0 63	\$0 79	\$0 85	\$1 06
Number of nurse visits to patients' homes December 1 to December 1,	39,220	48,179	51,873	54,778	51,320	53,605	56,079	57,674	53,448
Cost of each nurse visit to patients' homes.....	\$0 90	\$0 60	\$0 57	\$0 55	\$0 59	\$0 58	\$0 57	\$0 62	\$0 77
Number of cases carried by nurses on districts.....	4,259	4,188	5,017	6,170	6,067	6,378	6,743	7,275	6,904
Number in bed at time of nurse's first visit *.....	470	425	526	588	590	505	800	852	795

* Patients who have been to the out-patient department are not included here. These patients have been referred to the nurses by outside physicians and others.

The budget for 1919-20 has been already submitted.

Attention is called to the reports made to the trustees by the chief of the medical staff and by the superintendent.

The resignation of Mrs. J. J. O'Callaghan from the Board of Trustees is worthy of more than passing mention. For more than a dozen years she has been faithful in her attendance, zealous in the performance of the things she was called upon to do, and has well merited the approbation of the Chief Executive to whom her appointment and reappointments were due.

During the year the following changes have occurred:
April 30, 1918. Dr. N. R. Pillsbury resigned as assistant resident medical officer.

May 13, 1918. Dr. Bradford Kent appointed third assistant physician.

May 31, 1918. Dr. J. L. C. Goffin resigned as assistant resident medical officer.

July 25, 1918. Rev. James Somers resigned as chaplain.

July 26, 1918. Rev. Francis Burke appointed chaplain.

August 31, 1918. Dr. L. E. Parkins resigned as assistant resident medical officer.

September 7, 1918. Dr. F. B. Ames appointed assistant resident medical officer.

September 9, 1918. Dr. A. J. Ledoux resigned as assistant resident medical officer.

September 16, 1918. Dr. F. B. Sargent appointed assistant resident medical officer.

December 16, 1918. Dr. C. M. Flagg appointed assistant resident medical officer.

December 30, 1918. Mrs. J. J. O'Callaghan resigned as trustee.

January 3, 1919. Mr. Peter J. Donaghue appointed a trustee.

January 7, 1919. Dr. John F. O'Brien reappointed a trustee.

Respectfully submitted,

JOHN F. O'BRIEN, *Chairman*,
JAMES J. MINOT, *Secretary*,
ISABEL F. HYAMS,
JOHN J. BARRY,
PATRICK A. KEARNS,
PETER J. DONAGHUE,

Trustees Boston Consumptives' Hospital.

SUMMARY.

HOSPITAL AT MATTAPAN.

	1918.	1917.
Number of beds	422	408
Average daily number of patients	362	381
Total number admitted: adult, 694; child, 50; total	744	931
Number admitted from out-patient department	648	807
Total number discharged: adult, 706; child, 55; total	761	948
Discharged "arrested": adult, 19; child, 19; total	38	58
Discharged "improved": adult, 212; child, 15; total	227	333
Discharged "unimproved": adult, 117; child, 6; total	123	133
Nonpulmonary or nontubercular	15	20
Discharged "dead": adult, 343; child, 15; total	358	404
Discharged "alive": adult, 348; child, 40; total	388	544
Discharged "by advice"	112	220
Discharged "against advice"	124	160
Discharged "eloped"	152	164
Total cost, February 1 to February 1, including capital expenses account	\$232,924.28	\$218,372.14
Paid into city treasury [subsidy from state, patients' board from cities and towns, etc.]	\$86,720.59	\$81,236.23
Net cost to the city of hospital at Mattapan,	\$146,203.69	\$137,135.91
Cost per patient per day, excluding capital expenses account	\$1.68	\$1.39
Cost of raw food per patient and officer day,	\$0.44	\$0.38

OUT-PATIENT DEPARTMENT.

Total number of cases, old and new	9,671	9,829
Number of new cases	2,125	2,288
Number of new positive cases	716	792
Total number of nurses' visits to homes	53,448	57,674
Number referred to State Hospitals for Consumptives	472	539
Number referred to other hospitals	64	104
Number admitted to State Hospitals for Consumptives	288	235
Number admitted to other hospitals	47	
Number of deaths of patients in districts under nurses' care	245	76
Total cost, February 1 to February 1	\$48,429.60	\$42,365.56
Paid into city treasury [sale of medicine]	\$378.10	\$365.15
Net cost to the city of out-patient department	\$48,051.50	\$42,000.41
Cost per visit of patient to clinic	\$1.06	\$0.85
Cost per visit of nurse to a home	\$0.77	\$0.62

PATIENTS IN PRIVATE HOSPITALS.

Board of patients	\$7,028.87	\$11,685.32
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REPORT OF THE MEDICAL STAFF.

BOSTON, January 31, 1919.

To the Trustees of the Boston Consumptives' Hospital:

I beg to submit herewith the report of the medical staff of the Boston Consumptives' Hospital for the year ending January 31, 1919.

A. HOSPITAL, MATTAPAN.

During the past year the hospital has continued to feel the effects of the war, especially the impossibility of securing physicians for the position of assistant resident. It has therefore been necessary, as in all hospitals, to mark time until the end of the war and young medical school graduates again become available for these positions.

The hospital has been without a resident pathologist since Dr. Dwyer resigned to enter the army early in the year. For a considerable time also the work of the special chemical research laboratory was interrupted in consequence of the shortage of nurses in the hospital, which deprived the laboratory of the services of a nurse to supervise the diets and collection of specimens. The clinical laboratory likewise has for the most part been without a full quota of helpers and the routine work for this reason has been greatly handicapped.

During the year two assistant resident physicians, namely Drs. Pillsbury and Goffin, have resigned to enter the Medical Reserve Corps. Dr. Ledoux resigned and has accepted a position in a western sanatorium. Dr. Parkins after completing his service left to begin work under an appointment as medical interne at the Peter Bent Brigham Hospital.

Since the late summer of 1918 two of the students in the fourth-year class at the Harvard Medical School, Messrs. Ames and Sargent, have resided at the hospital and given such time as possible to assisting Dr. Hunt in the clinical work. For a considerable portion of the

year Dr. Hunt has had no other medical assistance. So directly has the entire burden of the medical work fallen on Dr. Hunt that I especially desire to commend his faithful and efficient service.

The appearance of the first cases of influenza among the patients in the hospital gave us great anxiety, as the soil seemed favorable for the disease to sweep through the entire institution. One would naturally assume furthermore that the mortality among such cases would be unusually high. The hospital was quarantined from September 27 to October 22.

But nine cases of influenza appeared among the patients in the entire hospital during the epidemic and of these only one terminated fatally. The remainder recovered promptly and without complications. Our observations in general of the spread of the disease during the past six months does not indicate that the small number of infections can possibly be the result of protective measures in vogue in the hospital. It would seem to be clearly shown that these individuals suffering from pulmonary tuberculosis in an advanced form must possess a rather general immunity against infection with this disease. Such an inference is borne out by exactly the same experience in several other hospitals caring for patients of the same type.

Pavilion Wards for Adults.

The number of patients in the hospital February 1, 1918, was 150 males and 72 females, or a total of 222 patients. During the year 537 males and 230 females, or a total of 767 cases, were admitted. The discharges for the year were 535 males and 237 females, or a total of 772 cases. On February 1, 1919, 217, or 152 males and 65 females, remained. During the entire year a total of 989 patients were treated, or 195 less than during the previous year. This diminution in the number of patients treated is undoubtedly due in part to the fact that many patients who would otherwise have remained in the institution have left against advice to go to work, being attracted by the high wages offered. A second reason is that during the influenza epidemic the hospital was quarantined for nearly a month, that is, from September 27 to October 22, and no new cases were admitted.

The following table gives the diagnosis of all cases on admission treated during the year, arranged according to sex:

	Males.	Females.	Totals.
A. Stage I.....	23	19	42
B. Stage II.....	104	51	155
C. Stage III.....	551	224	775
D. Tuberculosis, nonpulmonary.....	5	2	7
E. Nontuberculous.....	4	6	10
Totals.....	687	302	989

This table seems to indicate that during the year just closed a considerably larger percentage of the cases admitted have been of the third stage. We are unable to present any definite figures, but it is our impression distinctly that the explanation is to be found largely in the fact that heretofore the men have found it impossible to obtain employment, but with the increased demand for labor incident to the war a considerable number have been able to earn relatively high wages in almost any occupation.

Table showing the source of 767 cases admitted during the year:

	Males.	Females.	Totals.
A. Out-patient department.....	416	191	607
B. Cottage wards.....	50	17	67
C. Other institutions, etc.....	36	9	45
D. Outside physicians.....	31	11	42
E. Born at Boston Consumptives' Hospital.....	4	2	6
Totals.....	537	230	767

Table showing the disposition of all discharged cases:

	Males.	Females.	Totals.
A. Discharged dead.....	239	103	342
B. Discharged to home.....	141	85	226
C. Transferred to cottage wards.....	134	38	172
D. Transferred to state hospitals.....	9	3	12
E. Transferred to miscellaneous institutions.....	8	6	14
F. Transferred to children's ward.....	4	2	6
Totals.....	535	237	772

Table showing the average length of stay of all discharged cases from 1910 to 1919:

	Year 1910-11. (Days.)	Year 1911-12. (Days.)	Year 1912-13. (Days.)	Year 1913-14. (Days.)	Year 1914-15. (Days.)	Year 1915-16. (Days.)	Year 1916-17. (Days.)	Year 1917-18. (Days.)	Year 1918-19. (Days.)
All discharged cases.	46	40	82	85	96	122	109	111	130
Discharged dead.	45	36	85	87	88	133	118	135	128
Discharged to home.	53	38	93	87	98	114	70	164	163
Discharged to other in- stitutions.	39	33	63	80	56	27	50	31	94

In last year's report attention was called to the fact that this table showed a gratifying increase year by year in the length of stay of all discharged cases. For the past year it will be noted that the average length of stay of all discharged cases is considerably longer than for any previous year.

The condition at time of discharge is shown in the following table:

	Males.	Females	Totals.
Arrested.	5	3	8
Improved.	189	69	258
Unimproved.	104	55	159
Dead.	239	103	342
Totals.	537	230	767

Cottage Wards.

The statistics for the cottage wards are given in the tables following. In general the decrease in number of patients treated during the year has affected the statistics for the cottage wards to a far greater extent than for the pavilion wards.

The total number of patients treated in these wards during the year was 278, of whom 58 were women and 220 men.

Table giving the total number of cases treated:

	Males.	Females.	Totals.
Number of patients February 1, 1918.	86	20	106
Number of patients admitted during the year.	134	38	172
Number of patients discharged during the year.	143	36	179
Number of patients remaining January 31, 1919.	77	22	99

Table showing the stage of diseases at entrance:

	Males.	Females.	Totals.
Stage I.....	3	4	7
Stage II.....	28	8	36
Stage III.....	103	25	128
Nontuberculous.....	.....	1	1
Totals.....	134	38	172

The percentage of third-stage cases, which in last year's report was noted as having fallen from 90 per cent in the year 1914-15 to 42 per cent for the year 1917-18, this year rose to 74 per cent.

Table showing the disposition of all discharged cases:

	Males.	Females.	Totals.
Dead.....	1	.....	1
Home.....	89	17	106
Pavilion hospital.....	50	17	67
Other institutions.....	3	2	5
Totals.....	143	36	179

Table giving average length of stay of all discharged cases:

	Males.	Females.
All discharged cases.....	196 days	201 days
Those discharged home.....	167 days	64 days
Those discharged to other institutions.....	62 days	51 days
Those discharged to pavilion hospital.....	240 days	284 days

Comparison with similar figures for last year shows a very striking increase in the average length of stay of all discharged cases, probably very largely due to the fact of the great increase in the percentage of third-stage cases.

Table showing condition at time of discharge:

	Males.	Females.	Totals.
Arrested.....	9	2	11
Improved.....	76	22	98
Unimproved.....	48	14	62
Dead.....	1	.....	1
Totals.....	134	38	172

Children's Ward.

During the year ending January 31, 1919, a total of 108 infants and children were treated in this ward.

Table of statistics of the number of children and infants treated during the year:

	Males.	Females.	Totals.
Number of patients February 1, 1918.....	33	25	58
Number of patients admitted during the year.....	27	23	50
Number of patients discharged during the year.....	32	23	55
Number of patients remaining January 31, 1919.....	28	25	53

Table giving sources of all cases admitted:

	Males.	Females.	Totals.
A. Out-patient department.....	22	19	41
B. Pavilion wards.....	4	2	6
C. Other institutions.....	1	2	3
Totals.....	27	23	50

Table of diagnosis at entrance:

	Males.	Females.	Totals.
Stage I.....	9	6	15
Stage II.....	7	6	13
Stage III.....	4	8	12
Tuberculosis, nonpulmonary.....	3	1	4
Nontuberculous.....	4	2	6
Totals.....	27	23	50

Table of disposition of all discharged cases:

	Males.	Females.	Totals.
A. Dead.....	7	8	15
B. Home.....	24	14	38
C. Other institutions.....	1	1	2
Totals.....	32	23	55

Table showing average length of stay of all discharged cases:

	Males.	Females.
A. All cases.....	322 days	372 days
B. Dead.....	70 days	302 days
C. Home.....	404 days	310 days
D. Other institutions.....	122 days	1,797 days

Table giving number of discharged cases other than the dead with reference to the losses or gains in weight:

	Males.	Females.	Totals.
A. Gained.....	20	12	32
B. Stationary.....	2	1	3
C. List.....	3	2	5

Table showing condition at time of discharge:

	Males.	Females.	Totals.
Arrested.....	12	7	19
Improved.....	9	6	15
Unimproved.....	4	2	6
Dead.....	7	8	15
Totals.....	32	23	55

B. OUT-PATIENT DEPARTMENT.

Day Clinic.

The out-patient staff has remained the same as last year, but Doctors Boutwell, Riley, Shay and Silva have all been in active military service and therefore on leave of absence from the respective services.

During the year a total of 2,125 new and 6,860 old cases, or a grand total of 8,985, were treated in the out-patient department.

These figures, together with the percentage of positive cases for each year since the opening of the department, are given in the following table:

YEAR.	Number New Cases.	Number Old Cases.	Totals.	Percentage Positive Cases (New).
September 11, 1907, to January 31, 1908..	1,122	912	2,034	32.79
February 1, 1908, to January 31, 1909.....	2,433	7,098	9,531	31.69
February 1, 1909, to January 31, 1910.....	2,656	8,074	10,730	42.36
February 1, 1910, to January 31, 1911.....	2,462	4,915	7,377	33.75
February 1, 1911, to January 31, 1912.....	2,033	6,471	8,504	36.94
February 1, 1912, to January 31, 1913.....	1,971	6,735	8,706	49.87
February 1, 1913, to January 31, 1914.....	2,455	7,980	10,435	44.28
February 1, 1914, to January 31, 1915.....	2,227	7,971	10,198	44.90
February 1, 1915, to January 31, 1916.....	2,679	8,707	11,386	39.42
February 1, 1916, to January 31, 1917.....	2,247	7,823	10,070	39.03
February 1, 1917, to January 31, 1918.....	2,288	7,541	9,829	35.00
February 1, 1918, to January 31, 1919.....	2,125	6,860	8,985	32.80
Totals.....	26,698	81,087	107,785	

The gradual falling off in the past five years in the number of both old and new cases, as well as the percentage of positive cases, may have some significance. On the whole, however, these changes are so slight that they may be the result of conditions resulting from the war, or indeed of no significance whatsoever. Similar figures for the next year or two should be more significant.

Table of attendance of old and new cases:

	Old.	New.	Totals.
February, 1918.....	548	180	728
March, 1918.....	695	224	919
April, 1918.....	627	209	836
May, 1918.....	556	222	778
June, 1918.....	581	172	753
July, 1918	638	169	807
August, 1918.....	598	152	750
September, 1918.....	504	138	642
October, 1918	462	119	581
November, 1918.....	585	177	762
December, 1918.....	462	153	615
January, 1919.....	604	210	814
Totals.....	6,860	2,125	8,985

Table of diagnosis at entrance of all new cases, arranged according to age and sex:

	ADULTS.		CHILDREN.		Totals.
	Males.	Females.	Males.	Females.	
A. Tuberculosis.....	437	225	12	19	693
B. Suspected.....	108	168	24	59	359
C. Nontuberculous.....	240	153	340	319	1,052
D. Tuberculosis, nonpulmonary.....	2	.....	1	1	4
E. Insufficient records.....	3	5	2	7	17
Totals.....	790	551	379	405	2,125

As last year, the percentage of positive cases shows a slight fall from that of the previous year.

Table giving the diagnosis in the case of all children admitted to the clinic during the past eleven years:

	Positive.	Per Cent.	Deferred and Negative.	Total.
February 1, 1908, to January 31, 1909.....	87	9.46	833	920
February 1, 1909, to January 31, 1910.....	246	21.87	879	1,125
February 1, 1910, to January 31, 1911.....	87	9.91	791	878
February 1, 1911, to January 31, 1912.....	131	14.57	761	892
February 1, 1912, to January 31, 1913.....	266	32.01	565	831
February 1, 1913, to January 31, 1914.....	160	20.69	617	777
February 1, 1914, to January 31, 1915.....	150	20.57	575	729
February 1, 1915, to January 31, 1916.....	70	7.63	840	917
February 1, 1916, to January 31, 1917.....	53	7.34	669	722
February 1, 1917, to January 31, 1918.....	58	6.43	844	902
February 1, 1918, to January 31, 1919.....	33	4.26	742	775

The most striking thing in this table is the abrupt decrease in both the actual number and percentage of positive cases among the children, in each instance the lowest on record. The cause of this drop is not certain.

Table showing stage of the disease of all positive cases:

	ADULTS.		CHILDREN.		Totals.
	Males.	Females.	Males.	Females.	
Stage I.....	52	76	3	10	141
Stage II.....	206	102	6	5	319
Stage III.....	179	47	3	4	233
Tuberculosis, nonpulmonary.....	2	.....	1	1	4
Totals.....	439	225	13	20	697

Table showing disposition of all discharged cases:

	Males.	Females.	Totals.
Admitted to hospital.....	489	215	704
Discharged out of town.....	15	1	16
Patients refused to enter hospital.....	23	8	31
Still on waiting list January 31, 1919.....	3	1	4
Lost track of.....	7	.....	7
Dead.....	18	8	26
Totals.....	555	233	788

Evening Clinic.

A total of 83 new and 603 old cases were treated in this clinic during the year. The new cases comprise 57 males and 26 females.

The following table gives the attendance by months of old and new cases:

	Old.	New.	Total.	Average Attendance.
February, 1918.....	46	7	53	13.2
March, 1918.....	56	8	64	16.0
April, 1918.....	65	9	74	14.8
May, 1918.....	62	7	69	17.2
June, 1918.....	37	2	39	13.0
July, 1918.....	65	5	70	14.0
August, 1918.....	36	5	41	10.2
September, 1918.....	48	1	49	12.2
October, 1918.....	32	11	43	10.7
November, 1918.....	50	12	62	15.5
December, 1918.....	48	10	58	11.6
January, 1919.....	58	6	64	16.0
Totals.....	603	83	686	

Table of diagnosis at entrance of all new cases:

	ADULTS.		Totals.
	Males.	Females.	
A. Tuberculosis.....	13	6	19
B. Suspected.....	25	10	35
C. Nontuberculous.....	19	10	29
Totals.....	57	26	83

Table showing stage of disease at entrance of all positive cases:

	ADULTS.		Totals.
	Males.	Females.	
Stage I.....	5	.....	5
Stage II.....	3	6	9
Stage III.....	5	.....	5
Totals.....	13	6	19

The figures given in the above tables show a moderate falling off in the number of old cases as compared with the previous year but a corresponding increase in the number of new cases. This latter fact seems gratifying in view of the influence of the war, which must have exerted a definite and constant influence to diminish the attendance in the clinic. After the war we look for a considerable increase in the number of cases visiting this evening clinic.

In general, the work of the hospital during the past few years of war and especially during the year just closed has been considerably handicapped. This has in part been due to the shortage of doctors and nurses such as has been experienced in all hospitals and in part to the fact that the paramount issues of the war have temporarily dulled the public interest in the activities of the institution. There is every promise that we shall soon return to a pre-war basis and be able to resume full development of hospital ideals.

Respectfully submitted,

EDWIN A. LOCKE,
Chief of Staff.

REPORT OF THE SUPERINTENDENT.

To the Trustees of the Boston Consumptives' Hospital:

The report for the year 1918 is herewith presented:

There were 9,671 patients treated at the out-patient department during the year. Two thousand one hundred and twenty-five of these were new cases. Six hundred and eighty-six cases were treated at the night clinic, of which 83 were new cases.

On February 1, 1918, there were 369 patients in the wards in the hospital at Mattapan. There were admitted during the year 744 and 761 were discharged. The number of deaths during the year was 358.

In the children's ward February 1, 1918, there were 53 children. There were admitted during the year 50; 55 were discharged, of whom 15 died.

On July 1, 1918, the law allowing us to hire beds in private hospitals expired. At that time we had 24 patients in the Holy Ghost Hospital in Cambridge. Of this number 10 were transferred to Mattapan, the others refusing to come.

Ward O, having accommodations for 14 patients, is now ready for occupancy. Also, the night camp, with accommodations for 15 patients, is now ready.

The falling off in the number of admissions this year in comparison with that of last year was due to the influenza epidemic which was so prevalent during September and October. The hospital was in quarantine for five weeks at that time and no patients were admitted excepting one or two cases which were emergency. We were exceptionally fortunate, only losing one case from influenza.

The need of larger accommodations for the employees at Mattapan is very necessary. I again recommend and sincerely hope that the trustees may be successful in obtaining money to build and maintain a separate building for nurses.

The revenue from subsidy was a little less this year than in 1917. This was due in a measure to the decrease in the attendance during the epidemic and to the number of negative cases, of which there are 75 or 80 in the hos-

pital at the present time. This revenue could be very substantially increased if we were allowed subsidy on our negative cases.

The revenue from the State Board of Charity for state cases has very materially increased during the last year. They are now paying at the rate of \$10.50 a week on negative cases and \$5.50 on approved cases, where formerly it was \$7 and \$2, respectively.

I wish to thank the employees, who have served faithfully during the year. Many of the nurses resigned to do war work and it left our quota considerably short and we were obliged to fill their positions by patients, it being impossible to secure graduate nurses.

I desire also to express to the trustees my appreciation for their support and assistance during the year 1918.

Respectfully submitted,

ARTHUR J. WHITE,
Superintendent.

REPORT OF THE SUPERINTENDENT OF NURSES TO THE OUT-PATIENT DEPARTMENT.

To DR. ARTHUR J. WHITE, *Superintendent*:

With the year ending January 31, 1919, there were 6,904 patients visited by the nurses in the districts; of this number 795 were too ill to report to this clinic and were given to our department for either hospital care or home nursing or in the cases of the asthmatic the nurse gives the treatment in their home.

A total of 53,448 visits were made by the nurses; most of these visits are to give instruction and supervise the consumptive in his home and do preventive work among children.

Our staff of nurses has grown very slowly and it is impossible to do intensive or good work in any line of social follow-up work without an adequate number of nurses to cope with the situation; a very large percentage of our cases require hospital or sanatorium treatment and the nurse must take the time to look up some agency or agencies to look after a family while the wage earner is away, hunt for a housekeeper or try to get the income subsidized.

This year it has been particularly hard to get patients to go away for treatment; positions were so easily obtained and wages were so high they all felt as if they should take advantage of the good times.

In looking over the record work of the nurses it seems as if a great deal could be done to improve their work along this line by holding weekly conferences and discussing the necessity and essentials of good record work; on the other hand, there is so much work to be done and so few workers one cannot take them off their districts for even so short a time as an extra hour each week.

The night clinic continues to be a great benefit to both nurses and patients. It is really too large for one nurse to handle, but, with present conditions, here too we feel the shortage of workers.

This year our work in the clinic has been aided very much by Dr. Floyd examining all questionable cases

and has cleared up many an unsatisfactory situation that we had been carrying for years.

The number of days lost by the nurses this year is very large, some 241 days; this was due to the influenza epidemic, and eight of the nurses volunteered their services to the District Nursing Association. At one time in October we had only three nurses on duty.

Some thirty children have attended the Boston School for Physical Culture for corrective clinic work and some have shown marked improvement. We also have had the services of a most efficient volunteer worker who looks up lost cases for us. Mrs. Edwards has been most untiring and thorough in her efforts to locate these patients and has been able to trace a very large percentage of them.

We are very much indebted to the Fruit and Flower Mission, Needlework Guild of America, Fragment Society, the Invalid Aid, Y. M. C. A., St. Cecilian Guild and the First Parish Church of Dorchester, and kind friends have from time to time provided clothing for patients. The South and West End Diet Kitchens have provided milk and eggs for a large number of children where there was tuberculosis in the home, in that way doing the best kind of preventive work.

In closing, I beg to acknowledge the coöperation of the medical agencies throughout the city, the help and advice of our medical director and staff, and the untiring faithful work of the corps of nurses.

Respectfully submitted,

ZEPHA M. GARDNER,
Superintendent of Nurses.

FINANCIAL REPORT.

SCHEDULE 1.

Detail of Expenses.

TRUSTEES' OFFICE.

ADMINISTRATION EXPENSES.

Clerks	\$1,051 17	
Printing	4 50	
Stationery	36 32	
Postage	20 00	
Messenger and telegraph	8 84	
Total office administration expenses		\$1,120 83

HOSPITAL.

ADMINISTRATION EXPENSES.

Salaries, officers and clerks	\$11,266 98	
Painting	661 85	
Transportation	120 49	
Cartage	457 19	
Telephone	463 45	
Stationery	382 67	
Postage	154 78	
Office furniture	176 20	
Library	45 00	
Total hospital administration expenses		13,728 61
Grand total administration expenses		\$14,849 44

PROFESSIONAL CARE OF PATIENTS.

Salaries and wages	\$29,928 83	
Medical supplies	7,836 70	
Apparatus and instruments	498 12	
Laboratory:		
Salaries	\$2,000 00	
Supplies	262 46	
		2,262 46
Board of patients in private hospitals	6,880 38	
Disinfectants	200 00	
Religious services	1,630 00	
X-ray:		
Salaries	\$1,000 00	
Supplies	2,020 01	
		3,020 01
Total professional care of patients		52,256 50
Carried forward		\$67,105 94

Brought forward \$67,105 94

DEPARTMENT EXPENSES.

Housekeeping:									
Salaries	.	.	.	.	.	\$11,337	92		
Supplies	.	.	.	.	.	7,058	22		
								\$18,396	14
Kitchen:									
Salaries	.	.	.	.	.	\$2,707	94		
Supplies	.	.	.	.	.	46	05		
								2,753	99
Bakery:									
Salaries	.	.	.	.	.	\$925	00		
Supplies	.	.	.	.	.	9	40		
								934	40
Steward's department:									
Meat and fish	.	.	.	.	.	\$21,949	29		
Milk	.	.	.	.	.	16,325	67		
Groceries	.	.	.	.	.	17,144	17		
Butter, cheese and eggs	.	.	.	.	.	12,700	19		
Crackers	.	.	.	.	.	450	48		
Fruits and vegetables	.	.	.	.	.	1,358	10		
								69,927	90
Laundry:									
Salaries	.	.	.	.	.	\$3,783	66		
Supplies	.	.	.	.	.	1,415	40		
								5,199	06
Farm:									
Salaries	.	.	.	.	.	\$4,655	92		
Supplies	.	.	.	.	.	5,806	74		
								10,462	66
Ambulance and automobile:									
Salaries	.	.	.	.	.	\$1,092	00		
Supplies	.	.	.	.	.	747	69		
								1,839	69
Total department expenses	.	.	.	.	.			109,513	84

NOTE.—\$9,488.68 of farm cost was "food," but is not entered here in the steward's department.

GENERAL HOUSE AND PROPERTY EXPENSES.

Maintenance, machinery and tools:									
Salaries	.	.	.	.	.	\$11,657	12		
Supplies	.	.	.	.	.	214	12		
								\$11,871	24
Maintenance, real estate	.	.	.	.	.			5,436	33
Electric lighting and supplies	.	.	.	.	.			4,047	83
Fuel	.	.	.	.	.			28,011	46
Gas	.	.	.	.	.			892	30
Ice	.	.	.	.	.			318	54
Plumbing	.	.	.	.	.			403	47
Oil and waste	.	.	.	.	.			355	26
Water rates	.	.	.	.	.			24	00
Rents	.	.	.	.	.			480	00
Cleaning	.	.	.	.	.			675	00
Carpenter, salaries	.	.	.	.	.			1,278	01
Insurance	.	.	.	.	.			5	00
Total general house and property expenses	.	.	.	.	.			53,798	44
Total operating expenses	.	.	.	.	.			\$230,418	22
<i>Carried forward</i>	.	.	.	.	.			\$230,418	22

Brought forward \$230,418 22

CAPITAL EXPENSES.

Furniture and furnishings	\$30 00	
Clothing, bed and beddings	323 08	
Day Camp and Ward P heating system	1,049 40	
Farm Cottage heating system	210 00	
X-ray apparatus	368 58	
Vacuum pump	525 00	
	<hr/>	
Total capital expenses for Mattapan		2,506 06
		<hr/>
Total capital and operating expenses		<u>\$232,924 28</u>

OUT-PATIENT DEPARTMENT.

ADMINISTRATION EXPENSES.

Salaries, officers and clerks	\$2,319 32	
Transportation	1,179 51	
Printing	454 65	
Stationery	215 89	
Telephone	271 37	
Postage	84 80	
Messenger and telegraph	79 85	
Cartage	27	
Office furniture	19 50	
	<hr/>	
Total administration expenses		\$4,625 16

PROFESSIONAL CARE OF PATIENTS.

Salaries and wages	\$37,205 42	
Medical supplies	1,979 38	
Apparatus and instruments	238 14	
Equipment for nurses	51 30	
	<hr/>	
Total professional care of patients		39,474 24

DEPARTMENT EXPENSES.

Housekeeping:		
Salaries	\$1,252 00	
Supplies	153 86	
	<hr/>	
		\$1,405 86
Laundry:		
Salaries	\$175 00	
Supplies	25 00	
	<hr/>	
		200 00
Total department expenses		1,605 86

GENERAL HOUSE AND PROPERTY EXPENSES.

Rents	\$2,129 00	
Gas	110 63	
Fuel	380 63	
Water rates	35 00	
Ice	36 80	
Maintenance, real estate	32 28	
	<hr/>	
Total general house and property expenses		2,724 34
		<hr/>
Total operating expenses for out-patient department		<u>\$48,429 60</u>

TOTALS.

Grand total capital expenses	\$2,506 06
Grand total operating expenses	278,847 82
Grand total capital and operating expenses	<u>\$281,353 88</u>
Total capital and operating expenses	\$281,353 88
Deduct money paid to City Treasurer, Schedule III.	87,098 69
Net	<u>\$194,255 19</u>

SCHEDULE II.

SUMMARY OF EXPENDITURES.	APPROPRIATION AND INCOME.
Administration expenses..... \$19,474 60	Appropriation..... \$303,254 73
Professional care of patients..... 91,730 74	
Department expenses..... 111,119 70	
General house and property expenses.. 56,522 78	
Total operating expenses..... \$278,847 82	
Mattapan capital expenses..... 2,506 06	
Balance unexpended..... 21,900 85	
Total..... \$303,254 73	Total..... \$303,254 73

SCHEDULE III.

General Revenue, 1918-1919.

Board of patients:

Commonwealth of Massachusetts, subsidy *	\$67,295 58
State Board of Charity	15,253 57
Bureau of War Risk Insurance	223 50
Board of Health, Amesbury, Mass.	42 00
Board of Health, Barnstable, Mass.	189 00
Board of Health, Chelsea, Mass.	295 50
Board of Health, Falmouth, Mass.	46 50
Board of Health, Fitchburg, Mass.	714 00
Board of Health, Hingham, Mass.	169 50
Board of Health, Lowell, Mass.	40 50
Board of Health, Leominster, Mass.	85 50
Board of Health, Malden, Mass.	202 50
Board of Health, Newburyport, Mass.	412 50
Board of Health, Newton Highlands, Mass.	75 00
Board of Health, Plymouth, Mass.	138 00
Board of Health, Quincy, Mass.	198 00
Board of Health, Somerville, Mass.	12 00
Board of Health, Salem, Mass.	12 00
Board of Health, Woburn, Mass.	18 00
Board of Health, Weymouth, Mass.	46 50
Board of Health, East Weymouth, Mass.	670 50
Board of Health, Worcester, Mass.	66 00
Board of Health, Whitinsville, Mass.	97 50
Patients' board	45 00

Carried forward, \$86,348 65

* Acts of 1912, chapter 637.

<i>Brought forward</i>	\$86,348 65
Bones and grease	133 47
Sale of old iron, barrels, boxes and paper	54 50
Commission on telephone, Milton 21795	12 97
Sale of pigs and rabbits	6 00
Sale of lamb	5 00
Sale of medicines	378 10
Sale of old automobile and old ambulance	160 00
Total	<u>\$87,098 69</u>

NOTE— The above sum is paid into the city treasury and is not credited to the hospital.

TABLES SHOWING COST PER PATIENT PER DAY IN THE SEVERAL DEPARTMENTS.

HOSPITAL AT MATTAPAN.

Pavilion wards:	
General operating expenses	\$173,211 37
Proportion of administration expenses	9,736 78
	<u>\$182,948 15</u>
Cottage wards:	
General operating expenses	\$35,477 03
Proportion of administration expenses	1,994 28
	<u>37,471 31</u>
Total	<u>\$220,419 46</u>

Total patient days	131,296
Average cost per patient per day	\$1 68

TABLE SHOWING COST OF PROVISIONS PER PERSON PER DAY.

Total cost of provisions at Mattapan *	<u>\$79,416 58</u>
Total patient and officer days	177,204
Cost of raw food per person per day	\$0 44

OUT-PATIENT DEPARTMENT.

Clinical Patients

General operating expenses	\$9,685 92
Proportion of administration expenses	593 98
Total operating expenses	<u>\$10,279 90</u>
Total patients' visits	9,642
Cost per patient visit	\$1 06

Home Visiting and Nursing.

General operating expenses	\$38,743 68
Proportion of administration expenses	2,375 91
Total operating expenses	<u>\$41,119 59</u>

* \$9,488.68 of farm cost is included here as food cost.

CONSUMPTIVES' HOSPITAL DEPARTMENT. 29

Total home visits	53,448
Cost per visit	\$0 77

COST PER PATIENT PER DAY IN BEDS HIRED IN PRIVATE HOSPITALS.

Patients in hospitals:	
Cost at \$8 per week	\$6,880 38
Proportion of administration expenses	148 49
Total	<u>\$7,028 87</u>
Average cost per patient per day	\$1 14

SPECIAL LOAN APPROPRIATIONS.

NEW BUILDINGS.	
Balance of appropriation	\$3,720 20
Total	<u>\$3,720 20</u>
EXPENDITURES.	
Building	\$3,316 34
Balance unexpended	403 86
Total	<u>\$3,720 20</u>

FINANCIAL REPORT ARRANGED ACCORDING TO BUDGET ITEMS.

GROUP AND ITEM.	Original Appro- priation.	Transfers to.	Transfers from.	Total Net Appro- priation.	Total Expendi- tures.	Balance Unex- pended.	1917-18. Total Expendi- tures.
A. PERSONAL SERVICE.							
1. Permanent employees.....	\$138,706 73	.....	\$95 09	\$137,679 53	\$121,479 70	\$16,199 83	\$114,886 67
2. Temporary employees.....	2,000 00	.....	.....	2,000 00	1,649 75	350 25	2,048 50
B. SERVICE OTHER THAN PERSONAL.							
1. Printing and binding.....	65 00	\$95 09	.....	160 09	123 50	36 59	
2. Postage.....	200 00	50 00	.....	250 00	235 91	14 09	163 18
3. Advertising and posting.....	5 00	.....	.....	5 00	.....	5 00	3 00
4. Transportation of persons.....	1,300 00	.....	.....	1,300 00	1,300 00	.....	899 89
5. Cartage and freight.....	300 00	200 00	.....	500 00	459 36	40 64	362 31
8. Light and power.....	4,700 00	.....	1,027 09	3,672 91	3,672 91	.....	4,120 76
10. Rent, taxes and water.....	2,720 00	.....	.....	2,720 00	2,668 00	52 00	2,704 48
13. Communication.....	1,075 00	.....	.....	1,075 00	890 54	184 46	1,046 30
14. Motor vehicle repairs and care.....	50 00	150 00	.....	200 00	116 76	83 24	24 97
15. Motorless vehicle repairs.....	175 00	.....	.....	175 00	144 28	30 72	27 65
17. Care of persons.....	12,780 00	.....	5,612 12	7,167 88	7,142 88	25 00	11,685 32
18. Cleaning.....	675 00	550 00	.....	1,225 00	1,177 33	47 67	373 70
22. Medical.....	25 00	.....	.....	25 00	.....	25 00	2 00
23. Veterinary.....	24 00	16 00	.....	40 00	28 80	11 20	24 00

[illegible]

FINANCIAL REPORT ARRANGED ACCORDING TO BUDGET ITEMS.— Concluded.

GROUP AND ITEM.	Original Appro- priation.	Transfers to.	Transfers from.	Total Net Appro- priation.	Total Expendi- tures.	Balance Unex- pended.	1917-18. Total Expendi- tures.
<i>Brought forward</i>.....	.....	.....	.....	.....	.....	.....	\$157,945 36
16. Wearing apparel.....	\$1,200 00	.....	.....	\$1,200 00	\$1,137 15	\$62 85	698 19
17. General plant.....	25 00	.....	.....	25 00	.....	25 00	
D. SUPPLIES.							
1. Office.....	2,000 00	.....	.....	2,000 00	1,510 25	489 75	1,291 55
2. Food and ice.....	68,000 00	\$2,759 19	.....	70,759 19	69,978 56	780 63	63,879 10
3. Fuel.....	23,357 00	6,036 52	.....	29,393 52	29,393 52	.....	16,923 07
4. Forage and animal.....	4,112 00	785 00	.....	4,897 00	4,745 51	151 49	3,257 25
5. Medical, surgical, laboratory.....	13,000 00	.....	\$980 46	12,019 54	11,032 06	987 48	9,341 86
6. Library.....	15 00	.....	.....	15 00	7 00	8 00	5 00
8. Laundry, cleaning, toilet.....	1,750 00	528 43	.....	2,278 43	2,278 43	.....	1,691 87
9. Educational and recreational.....	50 00	.....	.....	50 00	39 98	10 02	49 53
10. Agricultural.....	500 00	.....	.....	500 00	479 99	20 01	477 11
11. Motor vehicle.....	500 00	50 00	.....	550 00	512 54	37 46	572 65
13. Chemicals and disinfectants.....	675 00	.....	.....	675 00	560 15	114 85	574 79
16. General plant.....	600 00	.....	.....	600 00	572 69	27 31	507 37
E. MATERIALS.							
1. Building.....	1,500 00	.....	300 00	1,200 00	1,030 11	169 89	1,382 98

9. Machinery.....	550 00	.....	.....	550 00	218 80	331 20	584 07
10. Electrical.....	600 00	.....	.....	600 00	385 96	214 04	515 18
13. General plant.....	600 00	.....	423 43	176 57	176 57	.....	34 68
G. INCIDENTAL EXPENDITURES TO COVER CONTINGENCIES OTHER THAN PERSONAL SERVICES.							
2. Special investigations.....	2,000 00	.....	.....	2,000 00	1,975 31	20 69	1,006 09
Totals.....	\$303,254 73	\$10,301 86	\$10,301 86	\$303,254 73	\$281,353 88	\$21,900 85	\$260,737 70

CITY OF BOSTON.
CONSUMPTIVES' HOSPITAL DEPARTMENT.

Office, 1001 City Hall Annex.

BOARD OF TRUSTEES.

DR. JOHN F. O'BRIEN, *Chairman*, term expires April 30, 1923.

DR. JAMES J. MINOT, *Secretary*, term expires April 30, 1920.

ISABEL F. HYAMS, term expires April 30, 1919.

PATRICK A. KEARNS, term expires April 30, 1921.

JOHN J. BARRY, term expires April 30, 1922.

PETER J. DONAGHUE, term expires April 30, 1923.

HOSPITAL, RIVER STREET, MATTAPAN.

Superintendent.

ARTHUR J. WHITE, M. D.

VISITING MEDICAL STAFF.

Chief of Staff.

EDWIN A. LOCKE, M. D.

First Assistant.

TIMOTHY J. MURPHY, M. D.

Pathologist.

WILLIAM T. COUNCILMAN, M. D.

Surgical Assistant.

ALBERT EHRENFRIED, M. D.

Ophthalmological Assistant.

SAMUEL J. McDONALD, M. D.

Laryngological Assistants.

JOHN T. SULLIVAN, M. D.

CHARLES E. SHAY, M. D.

Roentgenologist.

F. W. O'BRIEN, M. D.

Consulting Physician.

JOHN LOVETT MORSE, M. D.

RESIDENT MEDICAL STAFF.

Resident Medical Officer.

FRANK H. HUNT, M. D.

Assistant Resident Medical Officers.

F. B. AMES, M. D.

F. B. SARGEANT, M. D.

C. M. FLAGG, M. D.

J. D. WOO, M. D.

Resident Pathologist.

_____, M. D.

Laboratory Assistant.

EDNA M. CHILD, M. D.

Superintendent of Nurses.

MARGARET J. CHISHOLM.

OUT-PATIENT DEPARTMENT.

13 Dillaway Street, Boston.

Second Assistant Physician, Director of Out-Patient Clinic.

CLEAVELAND FLOYD, M. D.

Third Assistant Physician.

BRADFORD KENT, M. D.

Assistant Physicians.

HENRY I. BOWDITCH, M. D.

WILLISTON W. BARKER, M. D.

MICHAEL J. CRONIN, M. D.

ANDREW F. DOWNING, M. D.

HORACE K. BOUTWELL, M. D.

RICHARD H. HOUGHTON, M. D.

JOSEPH B. LYONS, M. D.

FRANCIS P. SILVA, M. D.

ELMOND A. BURNHAM, M. D.

CHARLES A. RILEY, M. D.

Superintendent of Nurses.

ZEPHA M. GARDNER.

CONSUMPTIVES' HOSPITAL DEPARTMENT.

HOSPITAL.

The hospital is on River street, Mattapan district.

Electric cars from Forest Hills, Mattapan square or Milton car barns pass through River street.

For admission of patients to the hospital apply to the Superintendent at Mattapan or to the Superintendent of Nurses at the Out-Patient Department.

Patients may be visited by their family or friends after ten a. m.

Patients on the dangerous list may have visitors at any time during the day or night.

Visitors must enter the hospital through the Administration Building and obtain a pass at each visit.

OUT-PATIENT DEPARTMENT.

The Out-Patient Department is at 13 Dillaway street, Boston.

The Out-Patient Department is open from nine to eleven a. m. on Mondays, Wednesdays, Fridays and Saturdays, and from seven to nine p. m. on Mondays.

The evening clinic is only for those who cannot come in the daytime.